CIVIL ONE ENGINEERS AND CONSULTANTS

(Civil Engineering Consultants, Third Party Inspection, PMC Material Testing Laboratory)
An ISO 9001: 2015 Certified Company

JAS-ANZ

Name of Work : Maintenance of Borewells and RO Plants in Ward No.16, BBMP, Bangalore.

Name of Client : **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.

Contractor/Agency : **Sri. T Chandrashekar Reddy,** Contractor, Bangalore.

Est Cost : Rs. 50.00Lakhs

Date of Inspection : 07.09.2020

Status of Bill : 1st and Final bill

In the Presence of : (a) **Assistant Engineer (Ward No.16),** BBMP, Bangalore.

: (b) **Mr. Hemanth Kumar,** Engineer M/s Civil One Engineers & Consultants, Bangalore.

SI No. No	Description of the Item		Comments / observations
1	Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage) Complete as per the direction of Engineer in Charge with all lead and Lift.	:	Work done up to the billed quantity and Quality is satisfactory
2	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per	:	Work done up to the billed quantity and Quality is satisfactory
3	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and powder	:	Work done up to the billed quantity and Quality is satisfactory
4	Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with	:	Work done up to the billed quantity and Quality is satisfactory

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

CIVIL ONE ENGINEERS & CONSULTANTS Bangalore

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SI No. No	Description of the Item		Comments / observations
5	Spplying and fixing 50mm GI Union. Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
6	Spplying and fixing 50mm GI Elbow. Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
7	Spplying and fixing 50mm GI Nipple. Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
8	Spplying and fixing 50mm GI Hose colleres Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
9	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., Complete as per the	:	Work done up to the billed quantity and Quality is satisfactory
10	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.	:	Work done up to the billed quantity and Quality is satisfactory
11	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps Complete as per the direction of Engineer in Charge with all lead and Lift.	:	Work done up to the billed quantity and Quality is satisfactory
12	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory

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Sl No. No	Description of the Item		Comments / observations
13	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board	:	Work done up to the billed quantity and Quality is satisfactory
14	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities. Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
15	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group	:	Work done up to the billed quantity and Quality is satisfactory
16	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery	:	Work done up to the billed quantity and Quality is satisfactory
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal	:	Work done up to the billed quantity and Quality is satisfactory
18	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
19	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16	:	Work done up to the billed quantity and Quality is satisfactory

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Sl No. No	Description of the Item		Comments / observations
20	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm Complete as per the direction of Engineer in Charge	:	Work done up to the billed quantity and Quality is satisfactory
21	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm Complete as per the direction of Engineer in Charge with all lead	:	Work done up to the billed quantity and Quality is satisfactory
22	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
23	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 63 amps Complete as per the direction of Engineer in Charge with all lead and Lift	:	Work done up to the billed quantity and Quality is satisfactory
24	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters stacking	:	Work done up to the billed quantity and Quality is satisfactory
25	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing	:	Work done up to the billed quantity and Quality is satisfactory
26	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step	:	Work done up to the billed quantity and Quality is satisfactory

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Sl No. No	Description of the Item		Comments / observations
27	Making connection of G.I.distribution branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications.	:	Work done up to the billed quantity and Quality is satisfactory
28	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of	:	Work done up to the billed quantity and Quality is satisfactory
29	Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all	:	Work done up to the billed quantity and Quality is satisfactory
30	KSRB 2-4 : Refilling available around earth pipe lines,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications Complete as per the direction of Engineer in	:	Work done up to the billed quantity and Quality is satisfactory
31	Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for	:	Work done up to the billed quantity and Quality is satisfactory
32	KSRB 2-4 : Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. Complete as per the	:	Work done up to the billed quantity and Quality is satisfactory
33	KSRB13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Complete as per the direction of Engineer in	:	Work done up to the billed quantity and Quality is satisfactory

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Sl No. No	Description of the Item		Comments / observations
34	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well	:	Work done up to the billed quantity and Quality is satisfactory
35	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating,	:	Work done up to the billed quantity and Quality is satisfactory

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For CIVIL ONE ENGINEERS & CONSULTANTS

Authorised Signatory

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